

VARIABLE RATE CDMA TRANSMISSION POWER CONTROL SYSTEM

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Abstract of JP11017646

PROBLEM TO BE SOLVED: To attain transmission power control with high accuracy, suitable for variable rate transmission without deteriorating the transmission quality.

SOLUTION: An Eb/lo calculation circuit 11 calculates an Eb/lo value which is a ratio of the signal power Eb per bit for each bit rate to an interference power lo per 1 Hz, based on the reception base band signal rs from a reception processing section 10. A maximum value detection section 16 detects a maximum value from the Eb/lo value. A comparator section 17 compares the maximum Eb/lo value with an object Eb/lo value. In the case that the maximum Eb/lo value is larger than the object Eb/lo value, transmission power is reduced, and when the maximum Eb/lo value is lower than the object Eb/lo value, the transmission power is increased to output a transmission power control bit to a multiplexer section 18, where TPC bits and transmission data td are multiplexed, multiplexed data from a transmission section 19 are modulated, as well as frequency converted and power based on the TPC bit is used for the transmission.

